U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES 401303 DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A FILING UNDER 35 USC 371** INTERNATIONAL APPLICATION NO. PRIORITY DATE CLAIMED INTERNATIONAL FILING DATE PCT/JP00/00158 Lanuary 17, 2000 TITLE OF INVENTION **ELEVATOR SYSTEM** APPLICANT(S) FOR DO/EO/US Shigeki YAMAKAWA Applicant herewith submits to Living United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a **FIRST** submission GARCINS concerning a filing under 35 USC 371. This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 USC 371. 3. This is an express request to begin national examination procedures (35 USC 371(f)). The US has been elected by the expiration of 19 months from the priority date (PCT Article 31). A copy of the International Application as filed (35 USC 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 USC 371(c)(2)). Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 USC 371(c)(3)). An anath or declaration of the inventor(s) (35 USC 371(c)(4)). An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 USC 371(c)(5)). 11. Nucleotide and/or Amino Acid Sequence Submission Computer Readable Form (CRF) Specification Sequence Listing on: CD-ROM or CD-R (2 copies); or Paper Copy Statement verifying identity of above copies Items 12 to 19 below concern other document(s) or information included: 12. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. Copies of Listed Documents 13. An assignment for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. 15. A substitute specification. 16. A change of power of attorney and/or address letter. 17. Application Data Sheet Under 37 CFR 1.76 18. Return Receipt Postcard 19. Other items or information:

U.S. APPLICATION 90. 88 4 66 5 INTERNATIONAL APPLICATION NO. PCT/JP00/00158 401303 20. The following fees are submitted: CALCULATIONS PTO USE ONLY Basic National Fee (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO......\$1,000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$ 860.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO, but international search fee (37 CFR 1.445(a)(2))paid to USPTO......\$ 710.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4)......\$ 690.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1) to (4).....\$ 100.00 ENTER APPROPRIATE BASIC FEE AMOUNT= \$860.00 Surcharge of \$130.00 for furnishing the National fee or oath or declaration later than \(\sum_{20} \) 30 months from the earliest claimed priority date \$ **CLAIMS** NUMBER FILED NUMBER EXTRA RATE Total Claims x \$ 18.00 Independent Claims 1 x \$ 80.00 \$ Multiple Dependent Claim(s) (if applicable) +\$270.00 \$ TOTAL OF ABOVE CALCULATIONS= \$860.00 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. SUBTOTAL= \$860.00 Processing fee of \$130.00 for furnishing English Translation later than \square 20 \square 30 months from the earliest claimed priority date. \$ TOTAL NATIONAL FEE= \$860.00 Fee for recording the enclosed assignment. The assignment must be accompanied by an appropriate cover sheet. \$40.00 per property \$40.00 TOTAL FEE ENCLOSED= \$900.00 Amount to be: refunded 21 44 \$ charged: -4 A check in the amount of \$900.00 to cover the above fee is enclosed. Please charge Deposit Account No. 12-1216 in the amount of \$ to cover the above fees. A duplicate copy of this b. sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-1216. A duplicate copy of this sheet is enclosed. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO: PATENT TRADEHARK OFFICE Date

Page 2 of 2

ApTmlPCT_CustNo (Rev. 11/13/2000)

09/889665 JC17 Rec'd PCT/PTO 19 JUL 2001

PATENT Attorney Docket No. 401303/SOGA

Art Unit: Unknown

Examiner: Unknown

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SHIGEKI YAMAKAWA

Application No. Unknown

Filed: July 19, 2001

For:

ELEVATOR SYSTEM

PRELIMINARY AMENDMENT

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Prior to the examination of the above-identified patent application, please enter the following amendments and consider the following remarks.

IN THE SPECIFICATION:

Replace the paragraph beginning at page 3, line 5 with:

Fig. 4 is a plan view of the hoistway as viewed from above the elevator hoistway of the second embodiment of the present invention;

Replace the paragraph beginning at page 3, line 8 with:

Fig. 6 is a plan view of the hoistway as viewed from above the elevator hoistway of the elevator system shown in Fig. 5.

IN THE CLAIMS:

Replace the indicated claims with:

1. (Amended) An elevator system comprising;

a hoistway including a hoistway wall and a bottom portion, said hoistway wall including a protrusion projecting from said hoistway wall inside said hoistway;

a vertical moving member ascending and descending the hoistway along a direction and not interfering with said protrusion; and

a control panel for controlling movement of said vertical moving member, said control panel being disposed within said hoistway and overlapping with a projected region of said protrusion, projected in the direction of movement of said vertical moving member.

- 2. (Amended) The elevator system as claimed in claim 1 wherein said control panel is positioned above an opening in the hoistway wall for providing access to said hoistway.
- 3. (Amended) The elevator system as claimed in claim 2 wherein said opening in said hoistway wall includes a landing floor door mechanism for opening and closing said opening portion, and said control panel is installed above said landing floor door mechanism.
- 4. (Amended) The elevator system as claimed in claim 1 including a vertical moving member with a door mechanism for engaging a landing floor door mechanism for opening and closing an opening portion, wherein said control panel at least partly overlaps a projected region of said vertical moving member door mechanism projected in the direction of movement of said vertical moving member and above a highest position of said vertical moving member within said hoistway.

IN THE ABSTRACT:

Replace the Abstract with:

ABSTRACT

An elevator system includes a hoistway including a hoistway wall and a bottom portion, the hoistway wall including a protrusion projecting from the hoistway wall inside the hoistway, a vertical moving member ascending and descending the hoistway without interfering with the protrusion, and a control panel for controlling the movement of the vertical moving member, the control panel being disposed within the hoistway and in an overlapping relationship with a projected region of the protrusion, projected in the direction of movement of the vertical moving member. The space within the hoistway is efficiently utilized and easy maintenance of the elevator system is provided.

REMARKS

The foregoing Amendment corrects translational errors and conforms the claims to United States practice.

Respectfully submitted,

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09/889665 JC17 Rec'd PCT/FTO 19 JUL 2001

PATENT Attorney Docket No. 401303/SOGA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SHIGEKI YAMAKAWA

Application No. Unknown

Filed: July 19, 2001

For:

ELEVATOR SYSTEM

Art Unit: Unknown

Examiner: Unknown

AMENDMENTS TO SPECIFICATION, CLAIMS AND ABSTRACT MADE VIA PRELIMINARY AMENDMENT

Amendments to the paragraph beginning at page 3, line 5:

Fig. 4 is a plan view of the hoistway as viewed from-the above-of the elevator hoistway of the second embodiment of the present invention;

Amendments to the paragraph beginning at page 3, line 8:

Fig. 6 is a plan view of the hoistway as viewed from—the above—of the elevator hoistway of the elevator system shown in Fig. 5.

Amendments to existing claims:

1. (Amended) An elevator system comprising;

a hoistway including a hoistway wall and a bottom portion, said hoistway wall including a protrusion of a building structural member or an equipment attached to the building wall, said protrusion projecting from said hoistway wall-toward the inside-of said hoistway;

a vertical moving member ascending and descending the hoistway-without along a direction and not interfering with said protrusion-ineluding; and

a control panel for controlling-the movement of said vertical moving member, said control panel being disposed within said hoistway and in an overlapping-relationship with a projected region of said protrusion, projected in the direction of movement of said vertical moving member.

- 2. (Amended) The elevator system as claimed in claim 1 wherein said control panel is positioned above an opening-portion in the hoistway wall for providing-an access to said hoistway.
- 3. (Amended) The elevator system as claimed in claim ± 2 wherein said opening portion in said hoistway wall provided for the entrance to the hoistway is provided with includes a landing floor door mechanism for opening and closing said opening portion, and said control panel is installed above said landing floor door mechanism.
- 4. (Amended) The elevator system as claimed in claim 1-wherein including a vertical moving member-is provided with a door mechanism for engaging-with a landing floor door mechanism for opening and closing an opening portion; and, wherein said control panel-is disposed at a position at least partly-overlapping with overlaps a projected region of said vertical moving member door mechanism projected in the direction of movement of said vertical moving member and above-the a highest position of said vertical moving member within said hoistway.

Amendments to the abstract:

ABSTRACT

An elevator system comprises includes a hoistway—(1) including a hoistway wall and a bottom portion, the hoistway wall including a protrusion—of a building structural member (16) or an equipment (14) attached to the building wall, the protrusion projecting from the hoistway wall—toward—the inside—of the hoistway, a vertical moving member—(1) ascending and descending the hoistway without interfering with the protrusion—including, and a control panel—(6) for controlling the movement of the vertical moving member, the control panel being disposed within the hoistway and in an overlapping relationship with a projected region of the protrusion, projected in the direction of movement of the vertical moving member.

Therefore, the The space within the hoistway—can—be is efficiently utilized and—the elevator system of easy maintenance—can—be of the elevator system is provided.

09/889665

JC17 Rec'd PCTATO 1 9 JUL 2001

PATENT

Attorney Docket No. 401303/SOGA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SHIGEKI YAMAKAWA

Art Unit: Unknown

Application No. Unknown

Examiner: Unknown

Filed: July 19, 2001

For:

ELEVATOR SYSTEM

PENDING CLAIMS AFTER ENTRY OF PRELIMINARY AMENDMENT

1. An elevator system comprising;

a hoistway including a hoistway wall and a bottom portion, said hoistway wall including a protrusion projecting from said hoistway wall inside said hoistway;

a vertical moving member ascending and descending the hoistway along a direction and not interfering with said protrusion; and

a control panel for controlling movement of said vertical moving member, said control panel being disposed within said hoistway and overlapping with a projected region of said protrusion, projected in the direction of movement of said vertical moving member.

- 2. The elevator system as claimed in claim 1 wherein said control panel is positioned above an opening in the hoistway wall for providing access to said hoistway.
- 3. The elevator system as claimed in claim 2 wherein said opening in said hoistway wall includes a landing floor door mechanism for opening and closing said opening portion, and said control panel is installed above said landing floor door mechanism.
- 4. The elevator system as claimed in claim 1 including a vertical moving member with a door mechanism for engaging a landing floor door mechanism for opening and closing an opening portion, wherein said control panel at least partly overlaps a projected region of said vertical moving member door mechanism projected in the direction of movement of said vertical moving member and above a highest position of said vertical moving member within said hoistway.

JC17 Rec'd PCT/PTO 1 9 JUL 2001

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SPECIFICATION

ELEVATOR SYSTEM

TECHNICAL FIELD

This invention relates to an elevator system and, in particular, to an elevator system having a control panel within the hoistway.

BACKGROUND ART

In a conventional elevator system, a hoist, a control panel and the like are installed in a machine room disposed above the hoistway, so that an installation space for the machine room must be maintained at the highest portion of the building, thus decreasing the utility efficiency of the building and the height of the building inevitably increases.

On the other hand, an elevator system with no machine room is proposed in which, as shown in Figs. 5 and 6 for example, the hoist and the control panel are installed in an overlapping relationship within a gap defined between the hoistway wall and the travel region of the car which is a moving member. In the figures, the reference numeral 1 is a hoistway, 2 is an elevator car which is a member ascending and descending within the hoistway, 3 is a hoist for driving the car 2 up and down, 4 is a main rope wound on the hoist 3 for supporting the car 2, 5 is a counter weight supported on the main rope 4 at the opposite side of the car 2, 6 is a control panel for driving and controlling the hoist 3, 7 are car guide rails disposed for guiding the car 2 moving up and down, 8 are counter weight guide rails for guiding the counter weight 5 moving up and down along the hoist way, 9 is a landing floor at which the passengers enter into and exit from the elevator car 2, 10 is a floor door disposed at the landing floor 9, 11 is a car door mounted to the car 2 and opened and closed in connection with the landing floor door 10, and 12 is a door mechanism for supporting the car door 11 and operating with the car door 11 suspended therefrom.

Also, Japanese Patent Laid-open No. 7-10434 (corresponding to European Patent Application EP 0631967) discloses an elevator system in which the hoist and the control panel are mounted at the highest portion of the hoistway and the machine room is eliminated. Also, Japanese Patent Laid-Open No. 7-10437 (corresponding to European Patent Application No. EP 0631968) discloses an elevator system in which the hoist and the control panel are installed at the bottom portion of the hoistway and the machine room is eliminated. However, in these elevator systems, even though the machine room can be eliminated, the height of the hoistway may be increased or the horizontal projection area of the hoistway may be increased.

Further, Japanese Laid-Open No. 8-40675 (corresponding to European Patent Application EP 0680920) discloses the housing of the main portion of the drive unit including the control panel within the depth of the cave formed in the side wall of the hoistway. With this measure, however, depth or the thickness of the drive unit that should be housed within the cave must be limited in the direction of the hoistway side wall thickness, resulting in difficulties in designing the configuration of the drive unit. Also, with this structure, the side of the drive unit opposite to the hoistway inevitably faces to rooms or passages adjacent to the hoistway, making it necessary to provide a counter measure for the elevator noise.

DISCLOSURE OF INVENTION

This invention has been made to solve the above-discussed problems of the conventional design and has as its object the provision of an elevator system having a reduced burden on the building and an improved utility efficiency without the need for the opening in the hoistway walls except for the entrance and exit and by making the height of the building small.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will become more readily apparent from the following detailed description of the preferred embodiments of the present invention taken in conjunction with the accompanying drawings, in which:

Fig. 1 is a perspective view of an elevator system of the first embodiment of the present invention;

Fig. 2 is a vertical sectional view of an elevator system of the first embodiment of the present invention;

Fig. 3 is a vertical sectional view of the top portion of the hoistway of an elevator system of the second embodiment of the present invention;

Fig. 4 is a plan view of the hoistway as viewed from the above of the elevator hoistway of the second embodiment of the present invention;

Fig. 5 is a perspective view of a conventional elevator system; and

Fig. 6 is a plan view of the hoistway as viewed from the above of the elevator hoistway of the elevator system shown in Fig. 5.

BEST MODE FOR CARRYING OUT THE INVENTION

The best mode of the present invention will now be described with reference to the accompanying drawings.

Embodiment 1

Fig. 1 is a perspective view of an elevator system of the first embodiment of the present invention and Fig. 2 is a vertical sectional view of an elevator system of the present invention. In the figures, the same components designated by the same reference characters as those in Figs. 5 and 6 in connection with the background art are identified by the same reference characters. The reference characters 1 is a hoistway, 2 is an elevator car which is a member ascending and descending within the hoistway, 3 is a hoist for driving the car 2 up and down, 4 is a main rope wound on the hoist 3 for supporting the car 2, 5 is a counter weight supported on the main rope 4 at the opposite side of the car 2, 6 is a control panel for driving and controlling the hoist 3, 7 are car guide rails disposed for guiding the car 2 moving up and down, 8 are counter weight guide rails for guiding the counter weight 5 moving up and down along the hoist way, 9 is a landing floor at which the passengers enter into and exit from the elevator car 2, 10 is a floor door disposed at the landing floor 9, 11 is a car door mounted to the car 2 and opened and closed in connection with the landing floor door 10, and 12 is a door mechanism for supporting the car door 11 and operating with the car door 11 suspended therefrom. 13 is a car sill for guiding the car door 11 sliding between the open and closed positions, 14 is a landing floor door mechanism for supporting the landing floor door 10 therefrom, 15 is a landing floor sill for guiding the landing floor door 10 sliding between the

open and closed position, 16 is a building structural member projecting into the hoistway 1 for supporting the landing floor sill 15 thereon, and 17 is an opening portion provided in the hoistway 1 for providing the access to the elevator car 2.

In the elevator system with such the structure, the control panel 6 for driving and controlling the hoist 3 is installed within the hoistway 1 and within a region defined by a vertical projection to a horizontal plane of an overhang portion which is a portion projected into the hoistway such as the landing floor mechanism 14, the landing floor sill 15 and the building structure member 16, so that it cannot interfere with the region within the hoistway in which the moving member such as the car 2. Also, at the landing floor opening 17 at which no vertically elongated members such as the main rope, the governor rope, the guide rails and the like are present so that they do not interfere, so that it cannot happen that the control panel installed above the entrance opening interferes the above-mentioned members and that the maintenance of the control panel is not impeded. Further, when the control panel is positioned above the opening in a similar manner, the maintenance of the control panel above the opening portion can be easily carried out by moving the car to the position allowing the personnel to ride on the car top, then the power source is interrupted to stop the car and then the landing floor door is opened from the landing floor side, ride on the car top which serves as the foothold to achieve the maintenance of the control panel above the opening portion.

Embodiment 2

While the control panel 6 is disposed between two floors with landings in the first embodiment shown in Fig. 2, the control panel may also be disposed above the landing floor of the top-most floor as illustrated in Fig. 3 for example. In this case, a control panel having a large horizontal thickness beyond the projection portions from the hoistway wall can be used by positioning it above the travel path or higher than the top end of the travel of the elevator car.

Fig. 3 is a vertical sectional view of the top portion of the hoistway of an elevator system of the second embodiment of the present invention, and Fig. 4 is a plan view of the hoistway as viewed from the above of the elevator hoistway of the second embodiment of the present invention. In the figures, the same components designated by the same reference characters are identified by the

same reference characters. The reference character 17 is the top-most landing floor, 18 is the ceiling of the top portion of the hoistway and 19 is the elevator car at the highest position in the hoistway 1.

In such the elevator system, the control panel 6 is disposed within the hoistway and above the protrusions such as landing floor door mechanism 14, the landing floor sill 15 and the building structure member 16 projecting into the hoistway, and has the structure having a thickness projecting to the position above the car door mechanism. It is to be noted that the elevator car 2 does not interfere with the control panel 6 because the latter is disposed above the highest position 19 in the hoistway. Therefore, the thickness of the control panel 6 can be designed without being limited by the dimensions of the protrusions from the hoistway wall. Also, the amount of protrusion of the control panel above the car can be receded by an amount corresponding to the dimension of the above protrusions, so that the interference at the time of maintenance on the car top can be alleviated. By making the protrusion extend above the door mechanism on which no one steps during the maintenance, almost no obstacle is generated. Also, the surface of the control panel is close to the maintenance area on the car, so that the maintenance of the control panel is easy.

INDUSTRIAL APPLICABILITY

According to the present invention, a control panel for controlling the movement of a vertical moving member is disposed within a hoistway and in an overlapping relationship with a projected region of a protrusion of a building structural member or an equipment attached to the building wall in the direction of movement of said vertical moving member, so that the so-called machine room is not necessary and the control panel can be installed without the fear of interferring it with the vertical moving member travelling within the hoistway.

Also, the control panel is positioned above an opening portion in the hoistway wall for providing an access to the hoistway, so that, since no vertically elongated elevator member is not installed immediately at the opening portion, the control panel mounted above the opening portion does not interfere with the above-mentioned members, so that no difficulty is paused in maintaining the control panel.

Also, the control panel is installed above the landing floor door mechanism, so that the control panel can be easily accessed and maintained by opening the landing floor door mechanism and stepping on the car top.

Further, the control panel is disposed at a position above the highest position of the vertical moving member within the hoistway, so that the thickness of the control panel can be designed without being limited by the dimensions of the protrusions from the hoistway wall, and the amount of protrusion of the control panel above the car can be receded by an amount corresponding to the dimension of the above protrusions, so that the interference at the time of maintenance on the car top can be alleviated. Also, the surface of the control panel is close to the maintenance area on the car, so that the maintenance of the control panel is easy.

<u>CLAIMS</u>

1. An elevator system comprising;

a hoistway including a hoistway wall and a bottom portion, said hoistway wall including a protrusion of a building structural member or an equipment attached to the building wall, said protrusion projecting from said hoistway wall toward the inside of said hoistway;

a vertical moving member ascending and descending the hoistway without interfering said protrusion including; and

a control panel for controlling the movement of said vertical moving member, said control panel being disposed within said hoistway and in an overlapping relationship with a projected region of said protrusion in the direction of movement of said vertical moving member.

- 2. The elevator system as claimed in claim 1 wherein said control panel is positioned above an opening portion in the hoistway wall for providing an access to said hoistway.
- 3. The elevator system as claimed in claim 1 wherein said opening portion in said hoistway wall provided for the entrance to the hoistway is provided with a landing floor door mechanism for opening and closing said opening portion, and said control panel is installed above said landing floor door mechanism.
- 4. The elevator system as claimed in claim 1 wherein a vertical moving member is provided with a door mechanism for engaging with a landing floor door mechanism for opening and closing an opening portion; and wherein

said control panel is disposed at a position at least partly overlapping with a projected region of said vertical moving member door mechanism in the direction of movement of said vertical moving member and above the highest position of said vertical moving member within said hoistway.

ABSTRACT

An elevator system comprises a hoistway (1) including a hoistway wall and a bottom portion, the hoistway wall including a protrusion of a building structural member (16) or an equipment (14) attached to the building wall, the protrusion projecting from the hoistway wall toward the inside of the hoistway, a vertical moving member (1) ascending and descending the hoistway without interfering the protrusion including, and a control panel (6) for controlling the movement of the vertical moving member, the control panel being disposed within the hoistway and in an overlapping relationship with a projected region of the protrusion in the direction of movement of the vertical moving member.

Therefore, the space within the hoistway can be efficiently utilized and the elevator system of easy maintenance can be provided.

Title: ELEVATOR SYSTEM Inventors: Shigeki YAMAKAWA Atty Docket No.: 401303 Leydig, Voit & Mayer, Ltd. 202-737-6770



FIG. 1

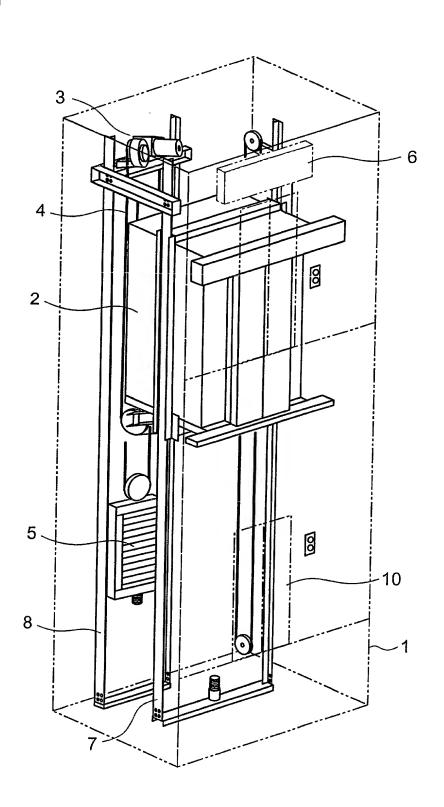


FIG. 2

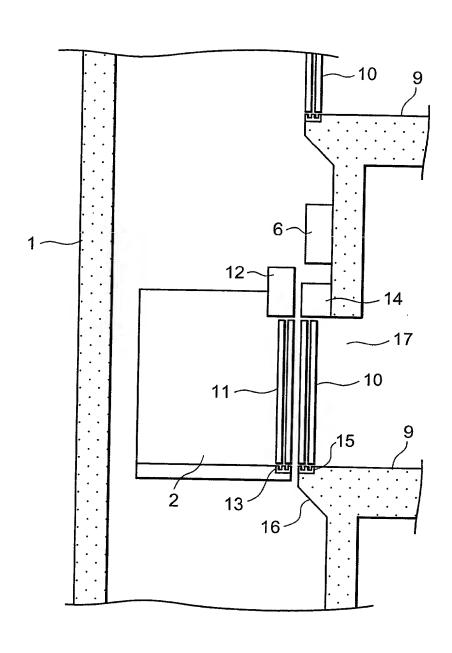


FIG. 3

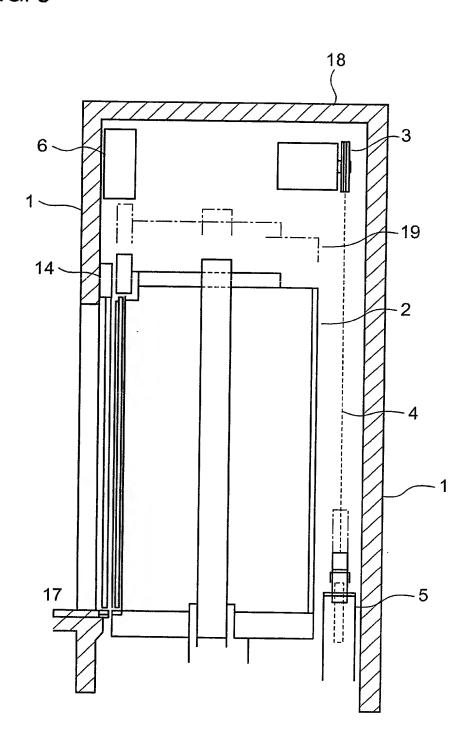


FIG. 4

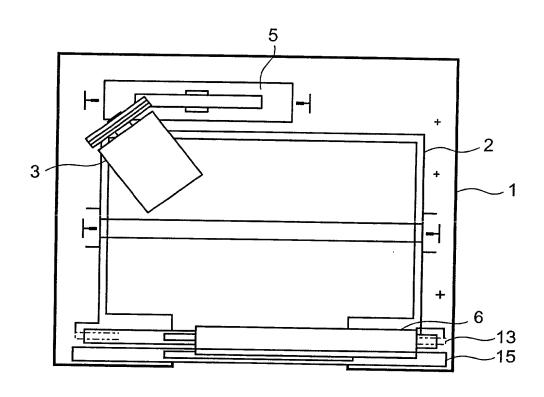


FIG. 5

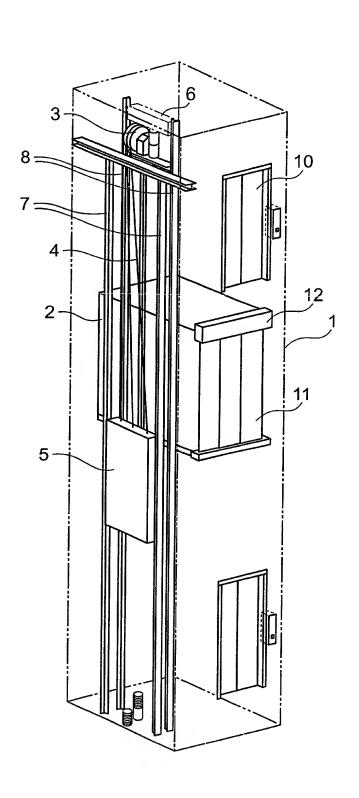
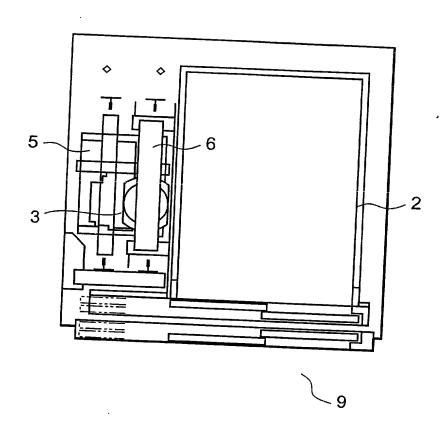


FIG. 6



APPLICATION INFORMATION

Application Type::

Regular

Subject Matter::

Utility

Suggested classification::

Suggested Group Art Unit::

CD-ROM or CD-R?::

None

Number of CD Disks:

Number of Copies of CDs::

Sequence Submission?::

Computer Readable From (CRF)?:: No

Number of Copies of CRF::

Title::

ELEVATOR SYSTEM

Attorney Docket Number::

401303

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Request for Non-Publication?::

No

Suggested Drawing Figure::

Total Drawing Sheets::

6

Small Entity::

No

Licensed US Govt. Agency::

Contract or Grant Numbers::

Secrecy Order in Parent Appl.?:: No

INVENTOR INFORMATION

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Status::

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Page 1

Initial 07/19/01

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Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。	As a below named inventor, I hereby declare that:
私の住所、私書箱、国籍は下記の私の氏名の後に記載された通 りです。	My residence, post office address and citizenship are as stated next to my name.
下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者(下記の氏名が一つの場合)もしくは最初かつ共同発明者(下記の名称が複数の場合)であると信じています。	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled. ELEVATOR SYSTEM
上記発明の明細書は、 □ 本書に添付されています。 □	the specification of which is attached hereto. was filed onIanuary_17, 2000 as United States Application Number or PCT International Application Number PCT/_IP00/00158 and was amended on (if applicable).
私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容 を理解していることをここに表明します。	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
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Japanese Language Declaration

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Prior Foreign Application(s) 外国での先行出願

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Priority Claimed 優先権主張 (Day/Month/Year Filed) Yes No (出願年月日) はい いいえ (Day/Month/Year Filed) Yes No (出願年月日) はい いいえ

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(Status: Patented, Pending, Abandoned) (現況:特許許可済、係属中、放棄済)

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